	[illegible]	Work done upto the Billed Quantity and the Quality is satisfactory
7	Providing & fixing 9 mm thick compressible fibre board in expansion joint complete as per drawings & technical specifications complete as per specifications and directions of the Engineer in charge.	Work done upto the Billed Quantity and the Quality is satisfactory
8	Dewatering with 5 HP centrifugal pump and suction unit and suction unit and suction pipe with skin plate chlorinated with floating disc including cost of gensets, HOM of machinery Screed Vibrators Power Trowels and dises etc with all load and lift complete as per specifications and directions of the Engineer in charge.	Work done upto the Billed Quantity and the Quality is satisfactory
14	Providing, laying spreading and compacting graded stones aggregate to wet mix macadam specifications including spreading the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications and directions of the Engineer in charge.	Work done upto the Billed Quantity and the Quality is satisfactory
15	providing and applying primer coat from 7.5 to 9.8 kg and 9.8 to 12.2kg per 10 sqm for surfaces of low and medium porosity respectively over prepared surface of granular base with cut bank MC-30 or any other bitumen mixed with diesel at 10 kg per 10 sqm heated in bitumen boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications and directions of the Engineer in charge.	Work done upto the Billed Quantity and the Quality is satisfactory

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8	Providing and laying in position plain cement concrete of min. M20 with OPC cement @ 320kgs. with 20mm and down size graded granite metal coarse aggregates @0.8Tcum and fine aggregates @0.45cum with superplasticizer @ 1% conforming to IS:456:2000,confirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, reading walls, retain walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or facing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. including cost of all materials, labour HOM of machinery, curing, complete as per specifications and directions of the Engineer in charge.	Work done upto the Billed Quantity and the Quality is satisfactory
9	providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications and directions of the Engineer in charge.	Work done upto the Billed Quantity and the Quality is satisfactory
10	Precast slab 20mm and down size for slab (including steel reinforcement) including centring and shuttering machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications c.c 1:1.5:3 Including all cost of Material (DATA RATE ENCLOSED) 10cm thick RCC pre cast slab complete as per specifications and directions of the Engineer in charge.	Work done upto the Billed Quantity and the Quality is satisfactory

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Web: www.arkengineers.com e-mail: rechan6630@yahoo.co.in

3	Providing and constructing granite / trap / basalt Size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications and directions of the Engineer in charge.	Work done upto the Billed Quantity and the Quality is satisfactory
4	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications and directions of the Engineer in charge.	Work done upto the Billed Quantity and the Quality is satisfactory
5	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification and directions of the Engineer in charge.	Work done upto the Billed Quantity and the Quality is satisfactory
6	Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications and directions of the Engineer in charge.	Work done upto the Billed Quantity and the Quality is satisfactory
7	Providing FLush pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications and directions of the Engineer in charge.	Work done upto the Billed Quantity and the Quality is satisfactory

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Structural Engineers & Project Management Consultants

NAME OF WORK:- Improvements to Roads and Drains at Byatarayanapura Ward No.05

Name of Client : EXECUTIVE ENGINEER, BYATARAYANAPURA DIVISION, BBMP, BANGALORE

Contractor/ Agency: Executive Engineer, Karnataka Rural Infrastructure Development Ltd. #280, 13th Cross Road, 17th 'C' Main Road, 3rd 'T' Block East, Jayanagar, Bangalore-560041.

Total Cost : RS.87,01,313.00/-

Date Of Inspection : 22-01-21

Status Of Bill : First & Final Bill

In the Presence of : a) Assistant Engineer, Ward no-5, Byatarayanapura Division, BBMP, Bangalore
b) R. Karthik Reddy, Partner, M/S RUDRAPRASAD CONSULTANTS, BANGALORE

PMC COMPLIANCE REPORT		
Sl. No.	Description of work	Comments/Observations
1	Earth work excavation by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications and directions of the Engineer in charge.	Work done upto the Billed Quantity and the Quality is satisfactory
2	Construction of Rolled Cement Concrete mix 1:4:8 OPC cement @180kgs, with 25mm and down size graded granite metal coarse aggregate at 0.85cum and fine aggregates @0.57cum base course with coarse and fine aggregate conforming to IS:383, aggregate cement ratio 12:1 and minimum cement content of 180kg/ cum, aggregate gradation to be as per Table 600-4 after blending, mixing in batching plant at optimum moisture content, transporting to site, laying with a paver with electronic sensor, compacting with 8-10 tonnes smooth wheeled vibratory roller to achieve, the designed flexural strength, finishing and curing complete as per specifications and directions of the Engineer in charge.	Work done upto the Billed Quantity and the Quality is satisfactory

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Telefax: 9180 23444801, Mobile: 91 9972924526
Web: www.arkengineers.com e-mail: rechan6630@yahoo.co.in

Assistant Executive Engineer
Byatarayanapura Ward No.05
BBMP, BANGALORE-24

RUDRAPRASAD CONSULTANTS

Structural Engineers Architects & Project Management Consultants

Date: 22-01-2020

To,

ASSISTANT EXECUTIVE ENGINEER
BYATARAYANAPURA SUB DIVISION
BBMP
BANGALORE

Dear Sir,

Sub: M/s. Rudraprasad Consultants Services for the work of IMPROVEMENTS TO ROADS AND DRAINS AT SRINIVASPURA VILLAGE IN WARD NO.05.

Ref: 1. Work Order No: BBMP/EE/BTP/WO/129/2019-20

2. Job code: 005-20-000006

We are here with forwarding to Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'H' Block, Rajajinagar, Bangalore-560010. First and Final bill duly verified and certified that the Work is satisfactory and for a Gross Value of RS.97,01,313.00/-(RS. Ninety Seven Lakhs One Thousand Three Hundred and Thirteen Only).

Thanking you,

Yours faithfully,

For Rudraprasad Consultants

R. KARTHIK RECHAN B.E M.S. USA
PRINCIPAL CONSULTANT
RUDRAPRASAD CONSULTANTS

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DETERMINATION OF RATE OF SPREAD TACK COAT

	:	CP-RW-2020-01-31-91 Dated: 28-12-19
Name	:	[illegible]
	:	Executive Engineer, Karnataka Rural Infrastructure Development Limited, #201, 2nd Cross Road, 7th C Main, 3rd Block, 3rd Phase, Rajajinagar, Bangalore-560010
Reference	:	EE (PW) TEND W C 001166 2019-20
Receipt	:	27-12-19
Mix	:	Tack coat
test	:	27-12-19

Sl No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	M	0.30 x 0.30	0.30 x 0.30
2	Area of Plate (a)	Sq mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.75	0.745
4	Final weight of plate after application of tack Coat (c)	Kg	0.830	0.835
5	Weight of tack Coat (d=c-b)	Kg	0.080	0.090
6	Rate of spread of tack coat	Kg/sq m	0.889	1.000
7	Average	Kg/sq m	0.944	
8	Specified Limit	Kg/sq m	0.850 Kg/sq m	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager